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Art Unit: 2664

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### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application.

#### **Listing of Claims:**

1. (Currently Amended) A method of operating a differentiated service network having a plurality of routers, said method comprising:  
determining an operating condition at a first router; and  
propagating an indication of said operating condition at said first router to a second router; and  
adjusting at least one parameter of constraint of incoming traffic flow based on said indication.

2. (Original) The method of claim 1, wherein said first router comprises a core router and said second router comprises an edge router.

3. (Original) The method of claim 1, further comprising:  
determining an operating condition at a third router; and  
propagating an indication of said operating condition at said third router to said second router.

4. (Original) The method of claim 1, wherein said operating condition comprises a status of stability.

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5. (Original) The method of claim 1, wherein said indication comprises a signal corresponding to a network traffic status.

6. (Original) The method of claim 5, wherein said network traffic status is represented by a color.

7. (Original) The method of claim 1, further comprising said second router making a profile change recommendation to a network operator.

8. (Original) The method of claim 1, further comprising said second router renegotiating a constraint of said network.

9. (Original) The method of claim 8, wherein said renegotiating comprises selecting from a plurality of constraints.

10. (Currently Amended) A method of operating a differentiated service network having a plurality of routers, said method comprising:

receiving, at a second router an indication of an operating condition at a first router; and

adjusting at least one parameter of a constraint of incoming traffic flow based on said indication of said operating condition.

11. (Currently Amended) The method of claim 10, further comprising:  
determining said operating condition at said first router; and

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propagating said indication of the operating condition at said first router to  
at the second router.

12. (Original) The method of claim 11, wherein said first router comprises a  
core router and said second router comprises an edge router.

13. (Original) The method of claim 12, further comprising:  
determining an operating condition at a third router; and  
propagating an indication of said operating condition at said third router to  
said second router.

14. (Original) The method of claim 10, wherein said operating condition  
comprises a status of stability.

15. (Original) The method of claim 10, wherein said indication comprises a  
signal corresponding to a network traffic status.

16. (Original) The method of claim 15, wherein said network traffic status is  
represented by a color.

17. (Original) The method of claim 10, wherein said adjusting comprises  
said second router renegotiating a constraint of said network.

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18. (Original) The method of claim 17, wherein said renegotiating comprises selecting from a plurality of constraints.

19. (Currently Amended) A differentiated service network comprising:

a first router; and

a second router coupled to said first router, said first router being associated with a first entity to determine an operating condition at the first router, wherein said first entity associated with said first router propagates an indication of said operating condition at the first router device to said second router; and

means for adjusting at least one parameter of constraint of incoming traffic flow based on said indication.

20. (Canceled)

21. (Original) The differentiated service network of claim 20, wherein said second router is associated with a second entity that determines an operating condition at said second router.

22. (Original) The differentiated service network of claim 21, wherein said second entity renegotiates a constraint of said network.

23. (Original) The differentiated service network of claim 22, wherein renegotiating comprises selecting from a plurality of constraints.

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24. (Currently Amended) The differentiated service network of claim 2019, wherein said operating condition comprises a status of stability.

25. (Original) The differentiated service network of claim 24, wherein said indication comprises a signal corresponding to a network traffic status.

26. (Original) The differentiated service network of claim 19, wherein said first entity comprises a QoS Firewall entity.

27. (Original) The differentiated service network of claim 19, wherein said first router comprises a core router and said second router comprises an edge router.